Reg. No.													

SAI RAM INSTITUTE OF TECHNOLOGY

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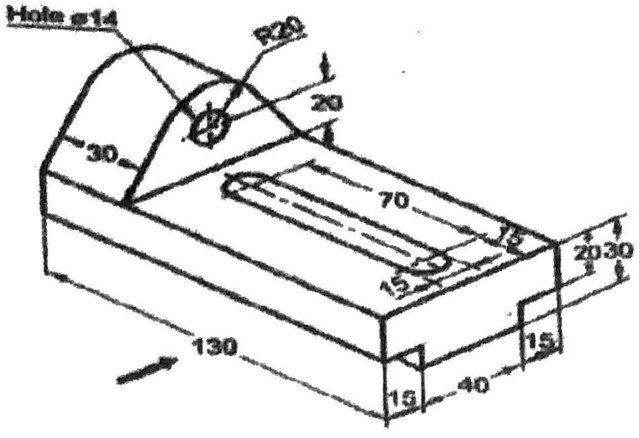
CONTINUOUS ASSESSMENT TEST – II

Question Paper Code	24NU12A074

Course Code - Name	24ESGE101 - ENGINEERING GRAPHICS		
Degree & Program	B.E./B.Tech. ECE,CCE,EEE,IOT,CYBER & MECH		
Date of Exam	03-12-2024	Year / Semester	: I/I
Duration	2 ½ Hours	Max. Marks	: 50

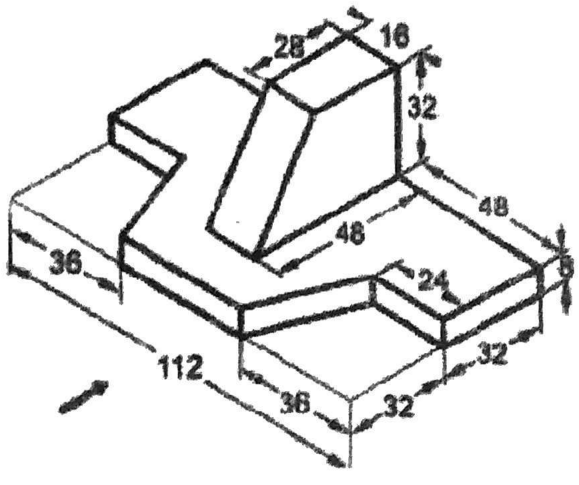
Part-A (4 × 25 = 100 Marks)
Answer all the question

			Mark Split up	K-Level	CO
1.	a)	A pentagonal pyramid, side of base 30 mm and axis 60 mm long is lying with one of its triangular faces on the HP and axis parallel to the VP. Draw the (i) simple position of solid (ii) final projections of solid.	10+15	K3	CO3
		(Or)			
	b)	A cylinder, base 30 mm diameter and axis 40 mm long, resting with a point of its base circle on HP such that the axis is making an angle of 30° with HP and parallel to VP. Draw the (i) simple position of solid (ii) final projections of solid.	10+15	K3	CO3
2.	a)	A cone of base 40 mm diameter and axis 50 mm long touches VP on a point of its base circle. Its axis is inclined at 30° to VP and is parallel to HP. Draw its projections.	10+15	K3	CO3
		(Or)			
	b)	A hexagonal prism, side of base 25 mm and axis 50 mm long rests with one of its base corners on HP such that its base makes an angle of 60° to HP and its axis is parallel to VP. Draw the (i) simple position of solid (ii) final projections of solid.	10+15	K3	CO3
3.	a)	Draw the following orthographic views for the given isometric view (i) Front View (ii) Top View and (iii) Side View as viewed from the side available for viewing.	9+9+7	K3	CO4

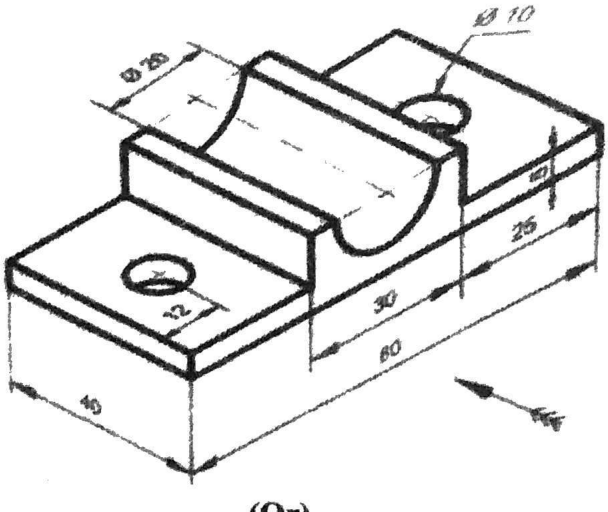


(Or)

b) Draw the following orthographic views for the given isometric view (i) Front View (ii) Top View and (iii) Side View as viewed from the side available for viewing. 9+9+7 K3 CO4

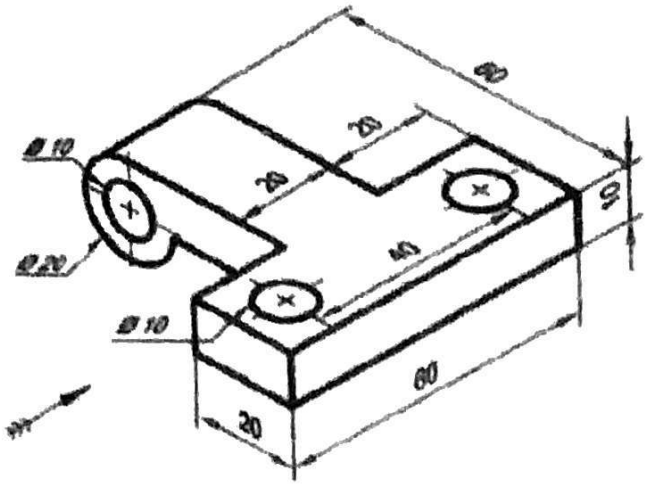


4. a) Draw the following orthographic views for the given isometric view (i) Front View (ii) Top View and (iii) Side View as viewed from the side available for viewing. 9+9+7 K3 CO4



(Or)

b) Draw the following orthographic views for the given isometric view (i) Front View (ii) Top View and (iii) Side View as viewed from the side available for viewing. 9+9+7 K3 CO4



Course Outcomes

CO1	Perform free hand drawing of conical sections and cycloids (K3)
CO2	Sketch the orthographic projection of lines and plane surfaces of rectangle, square, pentagon and Hexagon (K3)
CO3	Draw the orthographic projection of regular solids like prisms, pyramids, cylinder, and cone using change of position method (K3)
CO4	Draw Plan, elevation, and side views for the 3-dimensional isometric drawing by using the concepts of orthographic projection (K3)
CO5	Draw the section and development of lateral surfaces for the regular solids like prisms, pyramids, cylinder, and cone for the axis perpendicular to HP (K3)
CO6	Draw the isometric view, projection for the regular and truncated solids like prism, pyramid, cylinder, and cone (K3)

Distribution of COs (Percentage wise)						
CO No.	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**	**CO6**
%	-	-	**50**	**50**	-	-